IN THE CLAIMS:

This Listing of Claims will replace all prior versions, and listings, of claims in the subject Patent Application:

Listing of Claims:

(Currently amended) An anode stream recirculation system for a fuel cell, 1. the fuel cell including an anode gas input and an anode gas output, the anode stream recirculation system comprising:

an anode gas supply;

a switch connected with the anode gas supply for controlling the release of anode gas therefrom;

a pressure regulating device connected between the switch and the anode gas input of the fuel cell;

a diaphragm pump connected between the anode gas output and the anode gas input of the fuel cell to thereby forming an anode gas recirculation path for the fuel cell, the diaphragm pump being operable responsive to anode gas pressure within the recirculation path;

wherein the diaphragm pump has at least a sensor electrically connected with the switch for automatically controlling the selective actuation thereof.

(Original) The anode stream recirculation system for a fuel cell according to 2. Claim 1, wherein the anode gas is hydrogen.

- 3. (Original) The anode stream recirculation system for a fuel cell according to Claim 1, wherein the switch is an electromagnetic valve.
- 4. (Original) The anode stream recirculation system for a fuel cell according to Claim 1, wherein the diaphragm pump has a wall defining an interior space, a piston provided in the interior space, and a diaphragm assembly sealing with the piston and the wall of the diaphragm pump thereby dividing the interior space into two portions.
- 5. (Currently amended) The An anode stream recirculation system for a fuel cell-according to Claim 4, the fuel cell including an anode gas input and an anode gas output, the anode stream recirculation system comprising:

an anode gas supply;

a switch connected with the anode gas supply;

a pressure regulating device connected between the switch and the anode gas input of the fuel cell;

a diaphragm pump connected between the anode gas output and the anode gas input of the fuel cell thereby forming an anode gas recirculation; wherein the diaphragm pump has at least a sensor electrically connected with the switch;

wherein the diaphragm pump comprises two Hall effect sensors with one disposed at an upper side and the other disposed at a lower side of the diaphragm pump, and a magnetic member disposed on the piston to interact with the Hall effect sensors.

- (Original) The anode stream recirculation system for a fuel cell according to 6. Claim 5, further comprising an elastic device resisting against a bottom of the piston to provide an upward force to the piston.
- (Original) The anode stream recirculation system for a fuel cell according to 7. Claim 6, wherein the piston is adapted to move between a first position and a second position depending on variation of pressure on two sides of the diaphragm assembly and the force provided by the elastic device; the two sensors are used to sense the piston by detecting the magnetic member, when the piston moves to the first position, one of the sensor transmits a signal to switch off the switch, when the piston moves to the second position, the other sensor transmits another signal to switch on the switch.
- (Original) The anode stream recirculation system for a fuel cell according to 8. Claim 4, wherein the diaphragm pump further comprises an opening such that a portion of the interior space of the diaphragm pump is communicated with atmosphere.
- (Original) The anode stream recirculation system for a fuel cell according to 9. Claim 1, further comprising two check valves with one provided between the anode gas input of the fuel cell and the diaphragm pump, and the other

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provided between the anode gas output of the fuel cell and the diaphragm pump.

- 10. (Original) The anode stream recirculation system for a fuel cell according to Claim 4, wherein the diaphragm pump further comprises a water inlet and a water outlet, thereby a portion of the interior space of the diaphragm pump is filled with water by communicating with a water circulation system.
- 11. (Withdrawn).
- 12. (Withdrawn).
- 13. (Withdrawn).
- 14. (Withdrawn).
- 15. (Withdrawn).